Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-03-12-05 Date: 15-03-18
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Secondary drains Territary drains at Ward No.12 Shettyhalli.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Bagalagunte, Bengalore-560073
Customer's Reference	:	EE/DD/WO/128/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-18
Sample ID No	:	2018-03-12-05 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	42	42	4.2	95.8	90-100	90-100	90-100	95-100
3	2.36 mm	162	204	20.4	79.6	60-95	75-100	85-100	95-100
4	1.18 mm	234	438	43.8	56.2	30-70	55-90	75-100	90-100
5	600 micron	197	635	63.5	36.5	15-34	35-59	60-79	80-100
6	300 micron	127	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	158	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-12-05**

Sample ID No : 2018-03-12-05 /03

Date: 15-03-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-12-05**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Secondary drains Territary drains at Ward No.12 Shettyhalli.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Bagalagunte, Bengalore-560073
Customer's Reference	:	EE/DD/WO/128/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-18
Sample ID No	:	2018-03-12-05 /04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	13-03-18

Date: 14-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	527	652	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	542	661	20.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.887	582	672	19.0%	Satisfactory	Satisfactory

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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ರಸ್ತೆ, ಕಲಿಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT OF PRECAST COVER SLAB

Date: 17-03-18

Lab ID	:	**CP-2018-03-12-05**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Secondary drains Territary drains at Ward No.12 Shettyhalli.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Bagalagunte, Bengalore-560073
Customer's Reference	:	EE/DD/WO/128/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-18
Sample ID No	:	2018-03-12-05 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	13/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.51	1.345	4478	92.4	20.6	19.2	24.0
2	Cover Slab-2	75.48	100.49	1.389	4474	87.1	19.5	18.1	22.6
3	Cover Slab-3	75.49	100.48	1.365	4475	89.6	20.0	18.6	23.3

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2018

Lab ID	:	CP-2018-03-19-01
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Secondary drains Territary drains at Ward No.12 Shettyhalli.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Bagalagunte, Bengalore-560073
Customer's Reference	:	EE/DD/WO/128/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-01 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	· M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/03/2018	23/03/2018	149.85 X 151.44 X 149.88	22693	8.214	390.3	17.2	17.5
2	M20 Concrete	M20	16/03/2018	23/03/2018	151.66 X 150.02 X 150.64	22752	8.304	411.8	18.1	
3	M20 Concrete	M20	16/03/2018	23/03/2018	150.47 X 149.61 X 150.66	22512	8.142	385.0	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/04/2018

Lab ID	:	**CP-2018-03-19-01**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Secondary drains Territary drains at Ward No.12 Shettyhalli.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Bagalagunte, Bengalore-560073
Customer's Reference	:	EE/DD/WO/128/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-01 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/03/2018	13/04/2018	149.87 X 150.12 X 151.46	22498	8.175	513.0	22.8	22.8
2	M20 Concrete	M20	16/03/2018	13/04/2018	150.47 X 150.22 X 151.02	22604	8.164	517.6	22.9	
3	M20 Concrete	M20	16/03/2018	13/04/2018	150.41 X 150.47 X 151.00	22632	8.179	513.8	22.7	

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